

Transmittal

Mr. Paul Ruesch
Environmental Engineer
Region 5
U.S. Environmental Protection Agency
77 West Jackson Blvd.
Chicago, IL 60604-3590

September 17, 2012

Re: Nature Ventures, LLC – Bridge Drawings

Project No. G06361C

- ☐ For Review
- ☒ For Your Use
- ☐ As Requested

Sent By: Todd C. Campbell, CPG/lkj

COPIES	DATE	DESCRIPTION
1	12/2005	Plan View of Boardwalk
1	12/2005	Existing Bridge Cross Section

COMMENTS

As you requested, the attached diagrams are what we found regarding the bridge. If you have any questions or require additional information, please contact me at 269-544-6948 or tccampbell@ftch.com.

By e-mail

cc/att: Willard M. Rose, Ph.D. - Nature Ventures, Inc.
Lynn M. Spurr - FTC&H

ftc&h

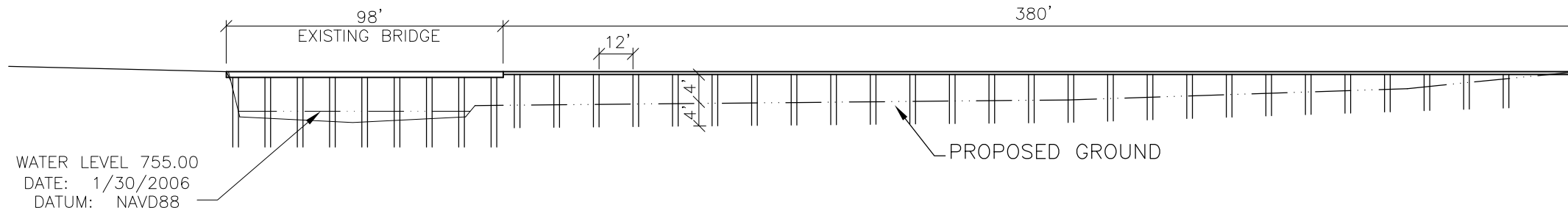
engineers
scientists
architects
constructors

4775 Campus Dr.
Kalamazoo, MI
49008

ph: 269.375.3824

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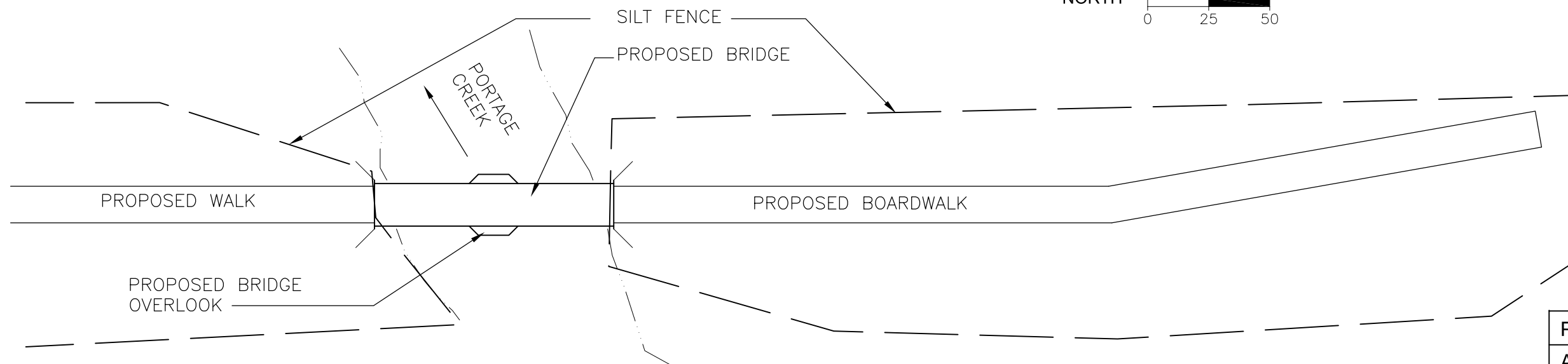
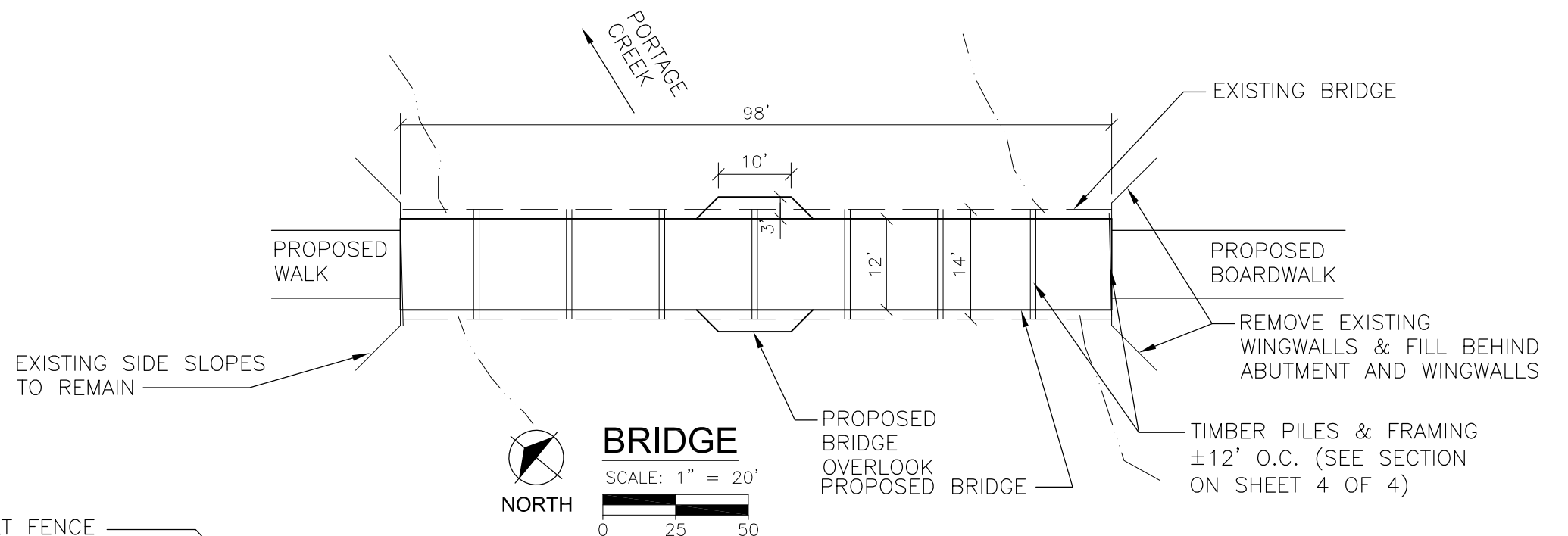
www.ftch.com



ELEVATION VIEW OF BRIDGE & BOARDWALK

SCALE: 1" = 50'

0 25 50

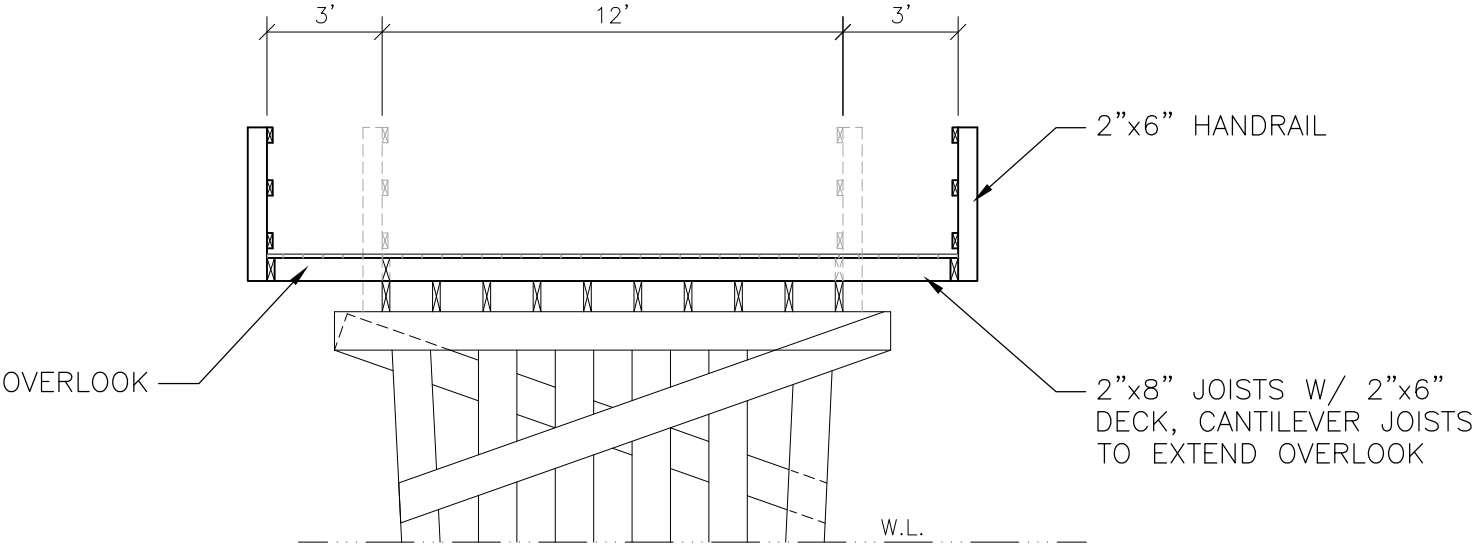


PLAN VIEW OF BOARDWALK
SCALE: 1" = 50'

0 25 50

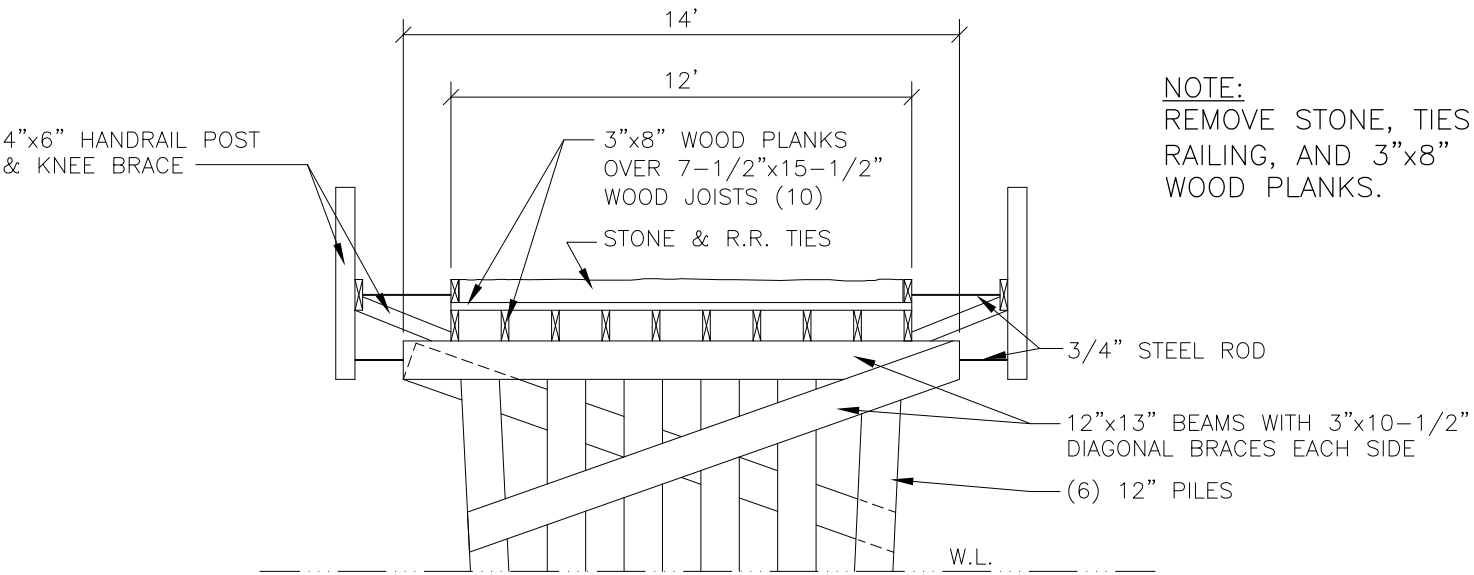
NORTH

PROPOSED BRIDGE AND BOARDWALK
APPLICANT: NATURE VENTURES, L.L.C.
WATERWAY: PORTAGE CREEK
CITY/TOWNSHIP: CITY OF KALAMAZOO
COUNTY: KALAMAZOO COUNTY
NUMBER OF SHEETS: 3 OF 4
DATE: 2/15/2007



PROPOSED BRIDGE CROSS SECTION

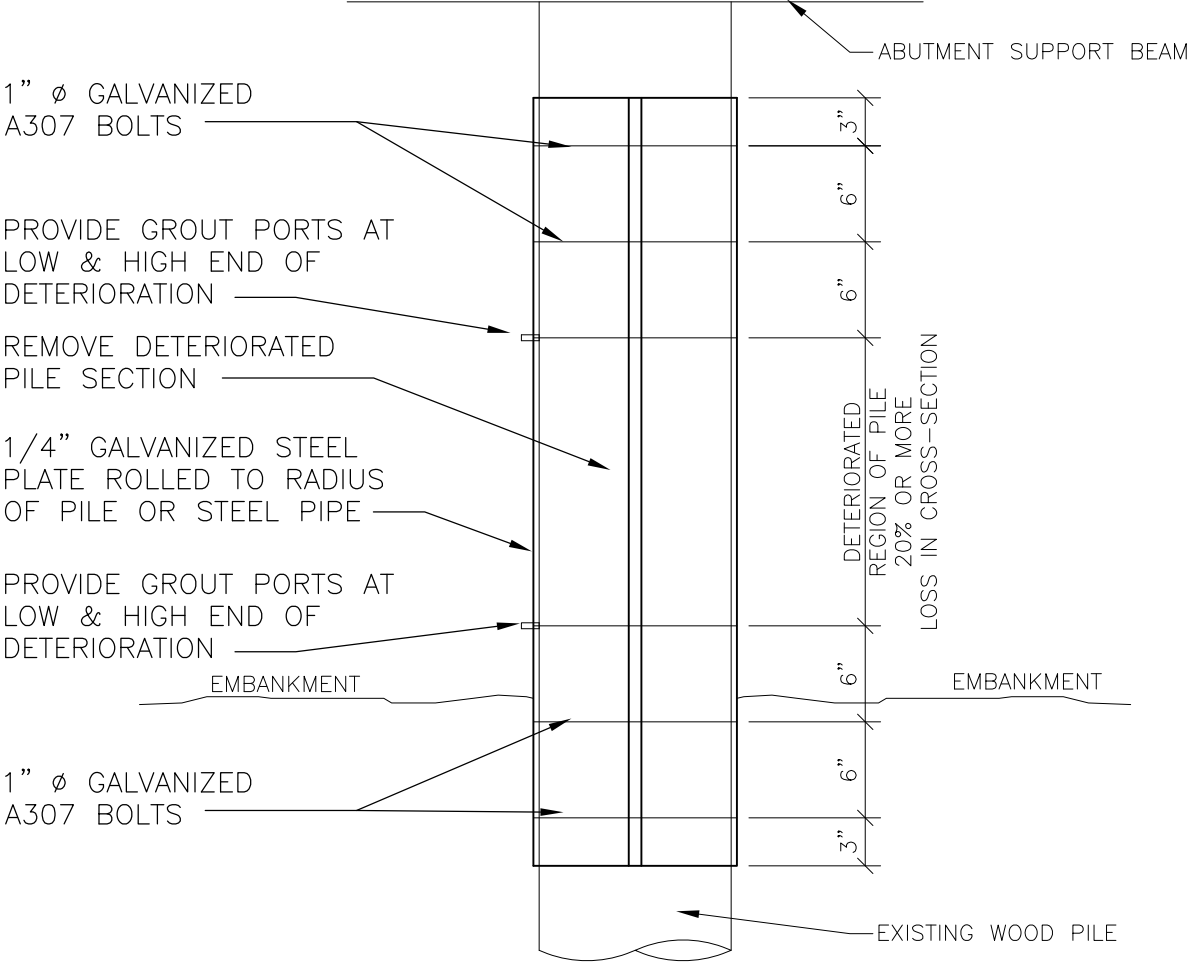
SCALE: 1" = 50'



EXISTING BRIDGE CROSS SECTION

SCALE: 1" = 50'

- NOTES:
1. SHORE UP ABUTMENT AS REQUIRED.
 2. REMOVE DETERIORATED PILE CROSS-SECTION.
 3. INSTALL SLEEVE.
 4. GROUT VOID (AREA OF PREVIOUS DETERIORATION).
 5. RESTORE EMBANKMENT.



ABUTMENT WOOD PILING REPAIR DETAIL

SCALE: 1" = 1'

PROPOSED BRIDGE DETAILS
APPLICANT: NATURE VENTURES, L.L.C.
WATERWAY: PORTAGE CREEK
CITY/TOWNSHIP: CITY OF KALAMAZOO
COUNTY: KALAMAZOO COUNTY
NUMBER OF SHEETS: 4 OF 4
DATE: 2/15/2007